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An Exploration of the Physical Meaning
of Quantum Theory

 Springer

New Foundations Of Quantum Mechanics

Alwyn Van der Merwe



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New Foundations of Quantum Mechanics Alfred Lande, 2015-12-03 Originally published in 1965 the aim of this book was to challenge the dualistic view of physics that is the assumption that beams of electrons consist of discrete particles and of waves Lande argues that this dualistic view is unnecessary not only on methodological grounds but also from the standpoint of physics Lande sets out to point out that there are faults in the purely physical arguments which have led to the dualistic doctrine and shows that by making use of the quantum rule for the exchange of linear momentum established by W Duane in 1923 wave like phenomena can be fully explained on a unitary particle theory of matter Chapters cover a variety of subjects and range from Dualism versus quantum mechanics to the Origin of the quantum rules Appendices are included for reference This book will be of value to students and scholars of the history of physics

New Foundations of Quantum Mechnics Alfred Landé, **New Foundations for Information Theory** David Ellerman, 2021-10-30 This monograph offers a new foundation for information theory that is based on the notion of information as distinctions being directly measured by logical entropy and on the re quantification as Shannon entropy which is the fundamental concept for the theory of coding and communications Information is based on distinctions differences distinguishability and diversity Information sets are defined that express the distinctions made by a partition e g the inverse image of a random variable so they represent the pre probability notion of information Then logical entropy is a probability measure on the information sets the probability that on two independent trials a distinction or dit of the partition will be obtained The formula for logical entropy is a new derivation of an old formula that goes back to the early twentieth century and has been re derived many times in different contexts As a probability measure all the compound notions of joint conditional and mutual logical entropy are immediate The Shannon entropy which is not defined as a measure in the sense of measure theory and its compound notions are then derived from a non linear dit to bit transform that re quantifies the distinctions of a random variable in terms of bits so the Shannon entropy is the average number of binary distinctions or bits necessary to make all the distinctions of the random variable And using a linearization method all the set concepts in this logical information theory naturally extend to vector spaces in general and to Hilbert spaces in particular for quantum logical information theory which provides the natural measure of the distinctions made in quantum measurement Relatively short but dense in content this work can be a reference to researchers and graduate students doing investigations in information theory maximum entropy methods in physics engineering and statistics and to all those with a special interest in a new approach to quantum information theory

Modern Physics and its Philosophy M. Strauss, 2012-12-06 In selecting the papers for this volume I have excluded all physics papers proper I have further omitted all book reviews Instead I have included two papers not published previously they are marked by an asterisk in the table of contents Since many of the papers were occasioned by Symposia or similar gatherings their chronological order is rather accidental Hence I have tried to group the papers thematically into four parts Within each part the order of

sequence is from the more general to the more special or from a more popular to a more technical treatment The same principle has been applied to the sequential order of the parts The foundational papers on quantum mechanics have been arranged in a somewhat different manner Chapters XVI XIX are concerned with the logic of complementarity while in Chapters XX XXII a more radical reconceptualization is carried out Two of the older papers Chapters VI and VIII have been revised to bring them more into line with present terminology Other papers have been corrected by additions and omissions Additions are marked by square brackets while double square brackets $\llbracket$ signify omissions or parts to be omitted Hence A $\rightarrow$ B means that A should be replaced by B The heading of one paper Chapter XX has been changed to make it more descriptive

A New Foundation of Physical Theories Günther Ludwig, Gérald Thurler, 2007-06-07 Aims to clarify and formulate the fundamental ideas of physical theories Suitable for both physicists and philosophers of science this book introduces the concept of idealization and reviews the process of discovering new concepts

New Foundation in the Sciences V. Christianto, F. Smarandache, R.N. Boyd, It is widely known among the Frontiers of physics that sweeping under the rug practice has been quite the norm rather than exception In other words the leading paradigms have strong tendency to be hailed as the only game in town

Physical Sciences and History of Physics Robert S. Cohen, Marx W. Wartofsky, 2012-12-06 These essays on the conceptual understanding of modern physics strike directly at some of the principal difficulties faced by contemporary philosophers of physical science Moreover they reverberate to earlier and classical struggles with those difficulties Each of these essays may be seen as both a commentary on our predecessors and an original analytic interpretation They come from work of the past decade most from meetings of the Boston Colloquium for the Philosophy of Science and they demonstrate again how problematic the fundamentals of our understanding of nature still are The themes will seem to be familiar but the variations are not only ingenious but also stimulating in some ways counterpoint And so once again we are confronted with issues of space and time irreversibility and measurement matter and process hypothetical reality and verifiability explanation and reduction phenomenal base and sophisticated theory unified science and the unity of nature and the limits of conventionalism We are grateful for the cooperation of our contributors and in particular for the agreement of George Ellis and C F von Weizsäcker to allow us to use previously published papers

Old and New Questions in Physics, Cosmology, Philosophy, and Theoretical Biology Alwyn Van der Merwe, 2012-12-06 Simply to say that this is a collection of essays in honor of the late Wolfgang Yourgrau 1908 1979 is to explain at least for the obviously many insiders the unusually wide ranging title of the present volume In a Foreword to the Proceedings of the First International Colloquium focusing on logic physical reality and history held at the University of Denver in May of 1966 under their leadership Wolfgang Yourgrau and Allen Breck wrote in an oblique reference to C P Snow Indeed there are not two or three or four cultures there is only one culture our generation has lost its awareness of this Historians logicians physicists all are banded in one common enterprise namely in their desire to weave an enlightened fabric of human knowledge Augment if you

will the foregoing categories of scholars with biologists philosophers cosmologists and theologians all of whom in addition to historians Wolfgang Yourgrau by dint of his inextinguishable enthusiasm and charismatic qualities assembled in Denver for the Second and Third International Colloquia in 1967 and 1974 respectively and a few others besides and one arrives at a statement of the credo which Yourgrau not only professed but consistently exemplified throughout his adult life

Mathematical and Conceptual Foundations of 20th-Century Physics G.G. Emch, 2000-04-01 This book is primarily intended for Mathematicians but students in the physical sciences will find here information not usually available in physics texts The main aim of this book is to provide a unified mathematical account of the conceptual foundations of 20th Century Physics in a form suitable for a one year survey course in Mathematics or Mathematical Physics Emphasis is laid on the interlocked historical development of mathematical and physical ideas Theology and Modern Physics Peter E.

Hodgson, 2017-09-08 The new discoveries in physics during the twentieth century have stimulated intense debate about their relevance to age old theological questions Views range from those holding that modern physics provides a surer road to God than traditional religions to those who say that physics and theology are incommensurable and so do not relate At the very least physics has stimulated renewed theological discussions In this critical introduction to the science theology debate Peter E Hodgson draws on his experience as a physicist to present the results of modern physics and the theological implications Written for those with little or no scientific background Hodgson describes connections between physics philosophy and theology and then explains Newtonian physics and Victorian physics the theories of relativity astronomy and quantum mechanics and distinguishes the actual results of modern physics from speculations The connections with theology are explored throughout The concluding section draws discussions together and makes an important new contribution to the debate

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